## 2010 Pipeline Safety Seminar

Regulator Roundtable

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Connecticut

Department of Public Utility Control

#### Personnel

- Program enhancements in the past year
  - Temporary to Permanent Program Manager 1/2010
  - New Engineer added to refill opening 6/2010
  - New Engineer soon to be added 10/2010

#### Personnel

- Program Manager Karl Baker 17 years
- Engineer 3 Bruce Benson 12 years
- Engineer 2 Daniel Nivison 11 years
- Engineer 1 Edward Fabrycki 4 years
- Engineer Intern John DePaolo 4 months
- Engineer 1 Eugene Osei starting Friday
- Damage Prevention Inspector Joseph Gallo 10 years

#### One-Call

- 5 Excavators fined in past year
- Total dollars = \$32,000
- Damages per 1,000 locate requests (all utilities):
  - 2008 4.10
  - 2009 3.21
  - 22% reduction
- Damages per 1,000 locate requests (gas utilities):
  - $\bullet$  2009 1.74

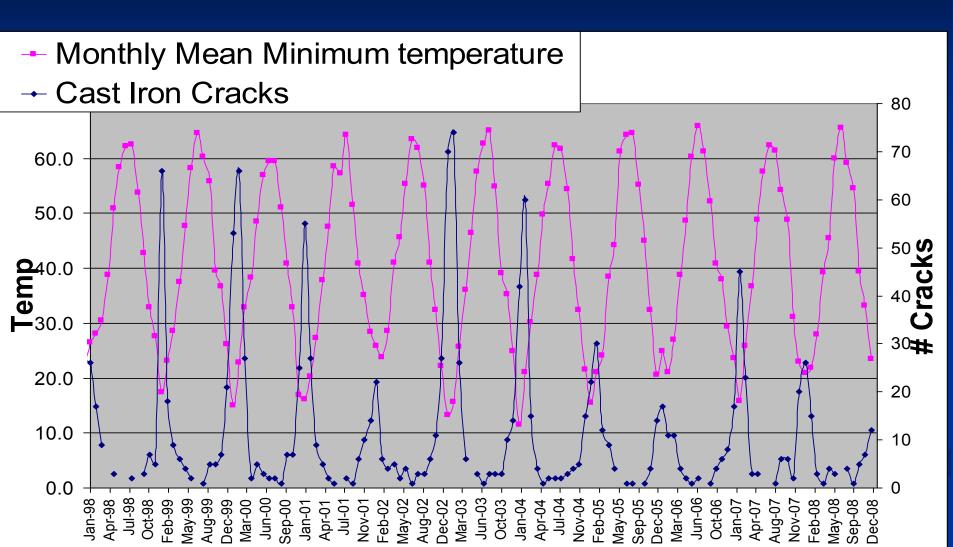
December 22, 2009 - Norwalk House Explosion





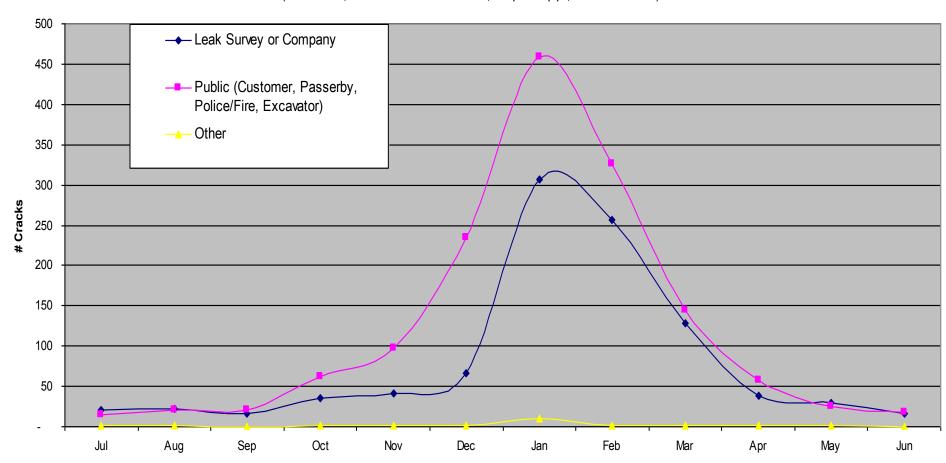


- Cracked 6" cast iron main, low pressure
- No history of cracks
- No recent excavation activity
- Approximately 1-2 inches of frost in the ground
- Cracked cast iron water main nearby, water flowing by gas main, no undermining
- Pipe was considered extremely low risk in ranking system



#### Cast Iron Cracking by Reporting Group - 1990-2008

(Leak Grade=1, Cause=Natural Earth Movement, Component=pipe, Material=Cast Iron)



#### **CAVEAT**

The Kleen Energy Plant Investigation is still considered a "criminal" investigation and, as such, only certain pieces of information can be divulged at this time.

620 Megawatt Dual Fuel Combined Cycle Power Plant
(Natural Gas & Fuel Oil)



- CT DPUC Regulatory Jurisdiction
  - Kleen Energy Power Plant is considered an exempt wholesale generator by FERC
  - This FERC status means it is NOT a public service company as defined in the CT DPUC statutes and therefore the CT DPUC has very limited jurisdiction
  - This is NOT the common perception among lawmakers or the public

- CT DPUC Involvement Prior to Accident
  - Electric Unit
    - DPUC-approved capacity contract provides guaranteed revenue stream from CL&P utility ratepayers
    - Kleen Energy Systems, LLC to construct new 620 MW highly efficient combined cycle gas-fired base-load plant in Middletown, CT (in-service date Nov. 2010)
  - Gas Pipeline Safety Unit
    - Reviewed design, construction, testing and commissioning of Algonquin Gas Transmission Company (AGT) lateral & meter station per our interstate agreement with PHMSA

AGT constructed 5,772 feet of 20" pipeline and a meter station with a 1,000 psi MAOP to serve Kleen Energy



GPSU performed several field inspections during construction – no concerns found

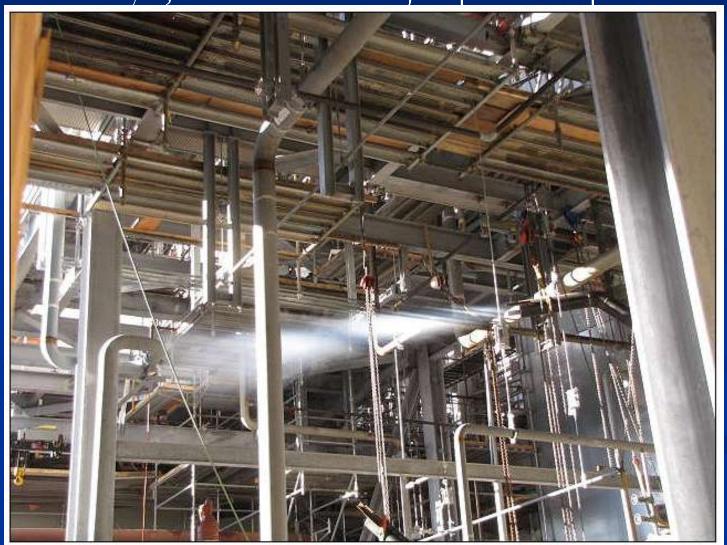


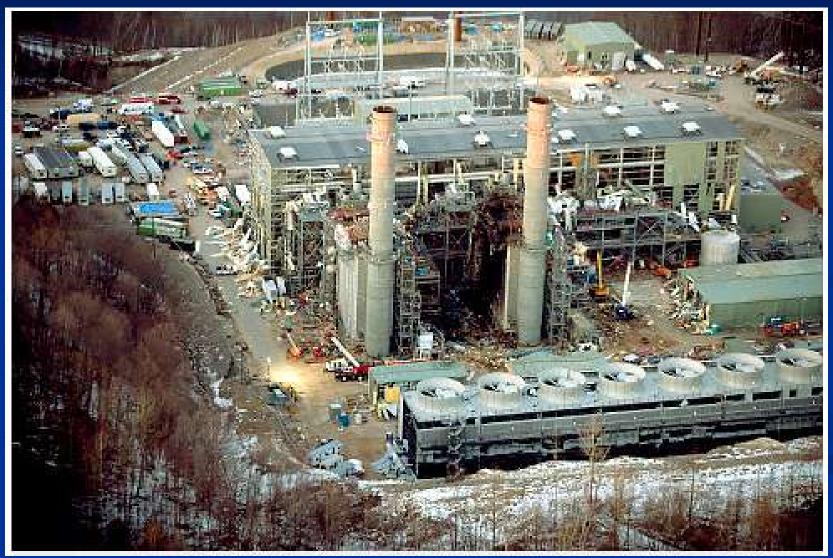
- Power Plant Activities
  - January 30, 2010 Contractors on the Kleen Energy project perform a series of "gas blows" No accidents
    - "Gas Blow" Flowing a large volume of high pressure natural gas through piping and venting this gas to the atmosphere to remove debris from the piping.
    - Pipe cleaning is extremely important to ensure no debris enters the gas turbines.
    - "Gas blows" are NOT purging

### Kleen Energy Accident January 30, 2010 "Gas Blow"



February 7, 2010 "Gas Blow" just prior to explosion





- February 7, 2010 DPUC at Incident Command Center to quickly confirm that neither AGT's facilities nor employees appeared to be involved
- February 9, 2010 GPSU and PHMSA joint review of AGT's facilities, records & employee activities determine that AGT was not involved
- February 11, 2010 GPSU assists Incident Investigation Team by overseeing AGT during the process of reducing pressure in AGT's meter station and approximately 800' of Kleen Energy piping that had approximately 650 psig of natural gas.

- Governor Rell creates two Task Forces
  - Task force 1 Figure out what went wrong
    - Completed investigation in June
    - Major finding Accident was caused by a "gas blow"
  - Task force 2 Stop it from ever happening again
    - Completed its review in September
    - 7 Recommendations Most important Ban "gas blows" using flammable gas

#### **New Initiatives**

- Locating jurisdictional propane operators and their systems
  - Before initiative
    - 5 known operators
    - 9 known jurisdictional systems
  - Currently
    - 6 known operators
    - Approximately 110 jurisdictional systems
  - Anticipated
    - Approximately 50 operators
    - Approximately 700 jurisdictional systems

#### New Initiatives

- CT will be hosting a Propane Safety Seminar
  - Tentatively scheduled for the week of May 9, 2011
  - We will be inviting all propane companies with jurisdictional systems in CT
  - Learn about:
    - What is the CT DPUC and what do we do
    - What is jurisdictional to the CT DPUC
    - Part 192/NFPA 58
    - Call Before You Dig
    - And much more

#### New Initiatives

- Updating Call Before You Dig statutes and regulations
  - Several areas need a general clean-up
  - Looking at some new areas
    - Mandatory reporting by excavators?
    - How should we handle very large excavation projects?
    - Design tickets?
    - Should we send civil penalties to CBYD Public Awareness Fund instead of State General Fund?
    - Is there a better system for cemeteries and quarries?

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